



TITLE:

Cover & Contents

AUTHOR(S):

CITATION:

Cover & Contents. Bulletin of the Institute for Chemical Research, Kyoto University 1959, 37(5-6)

ISSUE DATE:

1959-12-25

URL:

<http://hdl.handle.net/2433/75749>

RIGHT:

BULLETIN OF THE INSTITUTE FOR CHEMICAL RESEARCH

KYOTO UNIVERSITY

Vol. 37, Nos. 5~6

Special Issue
on
Physical, Chemical and Biological Effects
of
Gamma Radiation

Published bi-monthly by

THE INSTITUTE FOR CHEMICAL RESEARCH
KYOTO UNIVERSITY
KYOTO, JAPAN

December, 1959

(Bull. Inst. Chem. Res., Kyoto Univ.)

INSTITUTE FOR CHEMICAL RESEARCH
KYOTO UNIVERSITY

Director

Risaburo NAKAI

Members of Council

Rempei GOTO	Osamu HAYAISHI	Masayoshi ISHIBASHI
Hideo KATAGIRI	Kiichi KIMURA	Sango KUNICHIKA
Risaburo NAKAI	Ryohei ODA	Minoru OHNO
Ichiro SAKURADA	Nobuji SASAKI	Tsunenobu SHIGEMATSU
Sakae SHIMIZU	Keiichi SHISHIDO	Eiji SUITO
Tomoji SUZUKI	Isamu TACHI	Hideo TAKAKI
Yoshimasa TAKEZAKI	Tetsuro TANAKA	Megumi TASHIRO
Waichiro TSUJI	Hideki YUKAWA	

Editors

Katsuhiko ICHIKAWA	Risaburo NAKAI	Michiyasu SUGII
Gisaburo TABUCHI	Megumi TASHIRO	Natsu UYEDA

Treasurer

Takeo GYOBU

History of Publications

Term	Vol.	Title	Published
Jan., 1929- Dec., 1947	1-16	化学研究所講演集 (The Reports of the Institute for Chemical Research)	Indeterminately
April, 1933	—	10 Jahre Institut für chemische Forschung (化学研究所創立十周年記念号)	—
March, 1949- Dec., 1949	17-19	化研講演集 (The Reports of the Institute for Chemical Research)	Indeterminately
March, 1950- Sept., 1952	20-30	化学研究所報告 (Bulletin of the Institute for Chemical Research)	Quarterly
Dec., 1951	—	The Commemoration Volume for the Silver Jubilee (化学研究所創立二十五周年記念号)	—
Jan., 1953 onwards	31 No. 1-	Bulletin of the Institute for Chemical Research (化学研究所報告)	Bi-monthly

C O N T E N T S

Special Issue on Physical, Chemical and Biological Effects of Gamma Radiation

Sunao OKAMOTO, Yasuyuki NAKAYAMA and Kunihiro TAKAHASHI : The Two Kilocurie Cobalt-60 Gamma-Ray Irradiation Facility	299
Sakae SHIMIZU, Shin TANAKA and Yasuyuki NAKAYAMA : Gamma-Ray Dosimetry in an Irradiation Cavity of the 2000 Curie Cobalt-60 Facility	306
Koichi TOYODA, Akira KAWABATA and Tetsuro TANAKA : Effects of Gamma-Ray Irradiation on Selenium and Cuprous Oxide Rectifiers	319
Kuniya FUKUDA and Akizo OKUDA : Optical Absorption Bands in γ -Ray Irradiated LiF Crystals	321
Kunio OZAWA : Effects of Gamma-Radiation on Alkali Halide Crystals	327
Megumi TASHIRO, Sumio SAKKA and Naohiro SOGA : Small Cobalt-60 Irradiator—Gamma Dose Distribution in its Working Chamber	335
Megumi TASHIRO, Naohiro SOGA and Sumio SAKKA : Photographic Process in the Silver-containing Glass Exposed to U.V.- and Gamma-Radiation	341
Tsunenobu SHIGEMATSU and Toshiki OSHIO : Effect of Cobalt-60 Gamma Radiation on Ion Exchange Resin	349
Ichiro SAKURADA, Waichiro TSUJI and Fujiko KIMURA : Effects of γ -Ray Irradiation on Polymers. (I). Effects of γ -Ray Irradiation on Elongated Filaments of Low and High Density Polyethylenes	353
Ichiro SAKURADA, Waichiro TSUJI and Fujiko KIMURA : Effects of γ -Ray Irradiation on Polymers. (II). Effects of γ -Ray Irradiation on Mechanical Properties of Filaments of Low Density Polyethylene	361
Ichiro SAKURADA, Waichiro TSUJI and Fujiko KIMURA : Effects of γ -Ray Irradiation on Polymers. (III). Effects of γ -Ray on Mechanical Properties of Filaments of High Density Polyethylene	368
Shozo TANAKA, Hiroyuki HATANO, Shigetaka GANNO and Toshio OKAMOTO : Actions of Gamma Radiation on Enzymes and Enzyme Systems	374
Masafu SOGAMI, Yoshihiro TAMURA, Yasuo IMAI and Yoshihiya SHINAGAWA : Studies on γ -Ray Irradiated Bovine Plasma Albumin Solution	392
Tamiko IWASAKI : Effects of the Moisture Content on γ -Ray Sensitivity in <i>Artemia</i> Eggs	400
Masahiro RUE ISHIDA and Saburo MATSUOKA : Incorporation of ^{32}P into <i>Euglena</i> Cells Exposed to γ -Radiation	405
Hajime KADOTA, Hideo MIYOSHI and Hiromu SHIBATA : Response of γ -Irradiated Bacteria to Nutritional Substances Supplemented to the Postirradiation Culture Medium	408
Ichizo NISHIYAMA, Masasuke OKAMOTO and Takeo MARUYAMA : Radiobiological Studies on Plants. III. Sensitivity of the Seeds of	

Wheats and Oats to Gamma-Rays from Co ⁶⁰	417
Kuniyasu OGATA, Takashi IWATA and Kazuo CHACHIN : The Effect of Gamma Radiation on Sprout Prevention and Its Physiological Mechanism in the Potato Tuber and the Onion Bulb	425
Katsumi SYAKUDO and Akio UJIHARA : Studies on the Utilization of Induced Mutation for Sugar Beet Breeding. (I). Sensitivity of Sugar Beet to γ -Rays (Co ⁶⁰)	437
Morihisa YAMAGISHI : Bone Marrow Treatment of Mice Lethally Irradiated with Gamma-Rays under High Dose Rate. (I). Effect of Isologous Bone Marrow	440
Morihisa YAMAGISHI : Bone Marrow Treatment of Mice Lethally Irradiated with Gamma-Rays under High Dose Rate. (II). Effect of Homologous Bone Marrow.....	453
Morihisa YAMAGISHI : Bone Marrow Treatment of Mice Lethally Irradiated with Gamma-Rays under High Dose Rate. (III). Effect of Isologous Bone Marrow Administered at Various Post-irradiation Days.....	461
Tadashi MIYAKE, Takeshi SETSUDA and Hideo MURANAKA : Effect of Gamma-Ray Irradiation on Adrenocortical Activity of Albino Rats	468

化学研究所報告第37巻第 5~6 号

昭和 34 年12月 20 日 印 刷

【非 売 品】

昭和 34 年12月 25 日 発 行

大 阪 府 高 槻 市 古 曽 部

京 都 大 学 化 学 研 究 所

編集兼発行人

中 井 利 三 郎

京都市上京区寺之内通小川西入

印 刷 所

山 代 印 刷 株 式 会 社

京都市上京区寺之内通小川西入

印 刷 者

山 代 多 三 郎